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By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael G. Walker, Wayne Volkmuth, Tod M. Klingler

Title: **DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS**

Serial No.: To Be Assigned Filed: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

Commissioner for Patents
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

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<120> DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS

<130> PB-0008-1 CIP

<140> 09/226,994

<141> 1999-01-07

<160> 15

<170> PERL Program

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<212> PRT

<213> Homo sapiens

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Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn
          35          40          45
Lys Ser Ile Arg Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp
          50          55          60
Gly Ser Cys Glu Ser Glu Asn Ile Lys Val Phe Asp Gly Thr Ser
          65          70          75
Ser Asn Gly Pro Leu Leu Gly Gln Val Cys Ser Lys Asn Asp Tyr
          80          85          90
Val Pro Val Phe Glu Ser Ser Ser Ser Thr Leu Thr Phe Gln Ile
          95          100          105
Val Thr Asp Ser Ala Arg Ile Gln Arg Thr Val Phe Val Phe Tyr
          110          115          120
Tyr Phe Phe Ser Pro Asn Ile Ser Ile Pro Asn Cys Gly Gly Tyr
          125          130          135
Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser Pro Asn Tyr Pro Lys
          140          145          150
Pro His Pro Glu Leu Ala Tyr Cys Val Trp His Ile Gln Val Glu
          155          160          165
Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile Phe Leu Glu
          170          175          180
Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr Asp Gly
          185          190          195
Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg Val
          200          205          210
Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu
          215          220          225
Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr
          230          235          240
Thr Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys
          245          250          255
Ser Ser Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu
          260          265          270
Ala Phe Asn Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr
          275          280          285
Cys Arg Pro Lys Leu Ser Asn Val Val Glu Phe Ser Val Pro Leu

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290	295	300
Asn Gly Cys Gly Thr Ile Arg Lys Val	Glu Asp Gln Ser Ile Thr	
305	310	315
Tyr Thr Asn Ile Ile Thr Phe Ser Ala	Ser Ser Thr Ser Glu Val	
320	325	330
Ile Thr Arg Gln Lys Gln Leu Gln Ile	Ile Val Lys Cys Glu Met	
335	340	345
Gly His Asn Ser Thr Val Glu Ile Ile	Tyr Ile Thr Glu Asp Asp	
350	355	360
Val Ile Gln Ser Gln Asn Ala Leu Gly	Lys Tyr Asn Thr Ser Met	
365	370	375
Ala Leu Phe Glu Ser Asn Ser Phe Glu	Lys Thr Ile Leu Glu Ser	
380	385	390
Pro Tyr Tyr Val Asp Leu Asn Gln Thr	Leu Phe Val Gln Val Ser	
395	400	405
Leu His Thr Ser Asp Pro Asn Leu Val	Val Phe Leu Asp Thr Cys	
410	415	420
Arg Ala Ser Pro Thr Ser Asp Phe Ala	Ser Pro Thr Tyr Asp Leu	
425	430	435
Ile Lys Ser Gly Cys Ser Arg Asp Glu	Thr Cys Lys Val Tyr Pro	
440	445	450
Leu Phe Gly His Tyr Gly Arg Phe Gln	Phe Asn Ala Phe Lys Phe	
455	460	465
Leu Arg Ser Met Ser Ser Val Tyr Leu	Gln Cys Lys Val Leu Ile	
470	475	480
Cys Asp Ser Ser Asp His Gln Ser Arg	Cys Asn Gln Gly Cys Val	
485	490	495
Ser Arg Ser Lys Arg Asp Ile Ser Ser	Tyr Lys Trp Lys Thr Asp	
500	505	510
Ser Ile Ile Gly Pro Ile Arg Leu Lys	Arg Asp Arg Ser Ala Ser	
515	520	525
Gly Asn Ser Gly Phe Gln His Glu Thr	His Ala Glu Glu Thr Pro	
530	535	540
Asn Gln Pro Phe Asn Ser Val His Leu	Phe Ser Phe Met Val Leu	
545	550	555
Ala Leu Asn Val Val Thr Val Ala Thr	Ile Thr Val Arg His Phe	
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Val Asn Gln Arg Ala Asp Tyr Lys Tyr	Gln Lys Leu Gln Asn Tyr	
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<213> Homo sapiens

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35 40 45	
Gly Cys Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu	
50 55 60	
Gln Pro Ala Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala	

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Thr	Leu	Gly	Asn	Ile	Ser	Gly	Gly	His	Phe	Asn	Pro	Ala	Val	Ser
				80					85					90
Leu	Ala	Ala	Met	Leu	Ile	Gly	Gly	Leu	Asn	Leu	Val	Met	Leu	Leu
				95					100					105
Pro	Tyr	Trp	Val	Ser	Gln	Leu	Leu	Gly	Gly	Met	Leu	Gly	Ala	Ala
				110					115					120
Leu	Ala	Lys	Ala	Val	Ser	Pro	Glu	Glu	Arg	Phe	Trp	Asn	Ala	Ser
				125					130					135
Gly	Ala	Ala	Phe	Val	Thr	Val	Gln	Glu	Gln	Gly	Gln	Val	Ala	Gly
				140					145					150
Ala	Leu	Val	Ala	Glu	Ile	Ile	Leu	Thr	Thr	Leu	Leu	Ala	Leu	Ala
				155					160					165
Val	Cys	Met	Gly	Ala	Ile	Asn	Glu	Lys	Thr	Lys	Gly	Pro	Leu	Ala
				170					175					180
Pro	Phe	Ser	Ile	Gly	Phe	Ala	Val	Thr	Val	Asp	Ile	Leu	Ala	Gly
				185					190					195
Gly	Pro	Val	Ser	Gly	Gly	Cys	Met	Asn	Pro	Ala	Arg	Ala	Phe	Gly
				200					205					210
Pro	Ala	Val	Val	Ala	Asn	His	Trp	Asn	Phe	His	Trp	Ile	Tyr	Trp
				215					220					225
Leu	Gly	Pro	Leu	Leu	Ala	Gly	Leu	Leu	Val	Gly	Leu	Leu	Ile	Arg
				230					235					240
Cys	Phe	Ile	Gly	Asp	Gly	Lys	Thr	Arg	Leu	Ile	Leu	Lys	Ala	Arg
				245					250					255

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